

DYNAMIC DISPLAY ORNAMENT

BACKGROUND OF THE INVENTION

5 The present invention relates to a display ornament, and more particularly a dynamic display ornament that can be put in a public place or home at the entrance for decoration.

10 Antiques and paintings are commonly used to decorate a room, house, or particular place. However, these ornaments are static decorations that are not suitable for some particular business places. Furthermore, these ornaments are commonly expensive.

SUMMARY OF THE INVENTION

15 The present invention provides a dynamic display ornament which comprises a base, and a display device supported on the base. The display device is a transparent liquid container holding a colored liquid. The base holds a projection lamp which is controlled to project light through the
20 display device, and an air pump which pumps air into the display device, causing bubbles to be produced in the liquid contained in the display device.

BRIEF DESCRIPTION OF THE DRAWINGS

25 Figure 1 is an elevational view of a display

ornament according to the present invention.

a Figure 2 is an exploded view of ^{the} ~~The~~ dynamic display ornament shown in Figure 1.

Figure 3 is a sectional view taken along line
5 A-A of Figure 1.

Figure 4 is a sectional view of an alternate form of the present invention, showing an ornamental cap provided at the top side of the display device.

Figure 5 is a sectional view of another
10 alternate form of the present invention, showing a color filter mounted on the bottom side of the display device and a lampshade ^{that covers} ~~covered on~~ the projection lamp.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

15 Referring to Figures 1, 2 and 3, a display ornament in accordance with the preferred embodiment of the present invention is generally comprised of a transparent display device 1, and a box-like base 2 at the bottom side of the transparent display device 1.

20 The transparent display device 1 is a hollow member holding a colored liquid, having a top opening 11, and a bottom air inlet 12.

The box-like base 2 holds a projection lamp 21 and an air pump means (for example, an air compressor) 22 on
25 the inside. The light emitting element 211 of the projection

lamp 21 is aimed at the bottom side of the display device 1, and controlled to project light upwardly through the display device 1, permitting light to be refracted by the colored liquid in the display device 1 in different directions. The air pump means 22
5 has an output port connected to the air inlet 12 on the display device 1 through an air tube 221. When the air pump means 22 is started, air is forced into the display device 1, thereby causing bubbles to be produced in the colored liquid in the display device 1 (see Figure 3). A regulating valve 222 is provided at the air
10 tube 221 for regulating the flow rate of air passing through. When operated, bubbles are continuously produced in the display device 1, and light rays from the projection light 21 are refracted by the colored liquid in the display device 1 and the bubbles therein in different directions, producing a fantastic lighting
15 effect.

Referring to Figure 4, an ornamental cap 23 is provided at the top side of the display device 1 and covered over the top opening 11. The ornamental cap 23 has air vents through which air passes out of the top opening 11 of the display
20 device 1. Further, decorative rings 13 are mounted around the periphery of the display device 1 at different elevations. The outside wall of the display device 1 may be processed into light refracting planets, light refracting convex portions, ^{or} light refracting concave-convex portions. The display device 1 can

have any of a variety of designs, for example, the display device 1 can be shaped like a tree, an animal, etc.

Referring to Figure 5, the display device 1 can be colored, or colored light reflecting chips 3 may be put in the colored liquid in the display device 1, or a color filter 4 may be covered on the bottom side of the display device 1. Further, the light emitting element 211 can be a incandescent bulb or a light emitting diode, and a colored lampshade 212 may be provided ^{to cover} ~~and covered over~~ the light emitting element 211. The projection lamp 21 may be comprised of a plurality of color light emitting diodes that produce different colors of light.

It is to be understood that the drawings are designed for purposes of illustration only, and are not intended as a definition of the limits and scope of the invention disclosed.